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File: USPT

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**\*\* See image for Certificate of Correction \*\***

TITLE: Method and apparatus for using fibre channel extended link service commands in a point-to-point configuration

Detailed Description Text (409):

A control unit performs the TIN function by sending a TIN request and awaiting a reply. The TIN request requires the channel to respond with an indication of the logical paths which it considers to exist between it and the control unit. If the destination channel responds with an indication that all logical paths which were present before the failure are still present, then the logical paths to the channel and the associated resources are retained. If no response to the TIN request is received in a pre-specified time interval (referred to as RA\_TOV), then the control unit retries the TIN function. If, after multiple retries, either no response is received within a longer time interval (referred to as LP\_TOV) after the first detection of the link failure, or if a response is received indicating that the logical paths which were previously established are no longer established, then a control unit removes all logical paths to the channel to which the TIN was sent and frees all resources associated with the logical paths. The value of LP\_TOV used to await the response to the TIN is of sufficient duration to allow multiple attempts to send a TIN and await a response to be performed. This longer time interval allows multiple intermittent FC-PH link failures to occur during the LP\_TOV time period without causing the automatic removal of logical paths. A value of 4 seconds, or between 3 and 4 times the SB-2 link failure time (SB\_TOV) is chosen. During the LP\_TOV time period when attempts to verify the logical paths are being made, the detection of additional FC-PH link failures on the attached link or the remote link does not restart the LP\_TOV time period.